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(54) COATING SOLUTION FOR LOW DIELECTRIC CONSTANT SILICA BASED COATING FILM FORMATION AND BASE BODY WITH LOW DIELECTRIC CONSTANT COATING FILM

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a silica based coating film forming coating solution capable of forming an insulating film having low specific dielectric constant of ≤ 3 , excellent in adhesion to a surface to be coated, mechanical strength, chemical resistance and crack resistance by using a reaction product of a silica fine particle with a specific alkoxy silane and/or a halogenated silane.

SOLUTION: The coating film forming coating solution contains the reaction product of the silica fine particle with the alkoxy silane expressed by the formula $XnSi(OR)4-n$ and/or the halogenated silane expressed by the formula, $XnSiX'4-n$ or the hydrolyzed product (in the formula, X represents H, F, a 1-8C alkyl group, an aryl group or a vinyl group, R represents H, a 1-8C alkyl group, an aryl group or a vinyl group, X' represents a halogen atom, (n) represents integer of 0-3). As the silica fine particle, the one obtained by hydrolyzing or aging after hydrolyzing one or more kinds of the alkoxy silane is preferably used.

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